



The Raleigh Amateur Radio Society's **EXCITER**

GET INVOLVED

- RARS General Membership meeting: Second Tuesday of the month.
- The RARS net meets every night except Saturday @ 8 p.m. on 146.640.
- The RARS Technical & Trader's net: Saturdays @ 8:00 PM on 146.64.
- RARS meets for a monthly dinner on the First Tuesday of each month.



PUBLIC SERVICE EVENTS

Interested in helping? Visit
<http://www.rars.org/public-service.php>

frequently for our 2015
ham public service
schedule.

Also see page 19 for more info.

RARS General Meeting

Topic: RARS Officers election and Show and Tell.

See [page five](#) for information on the Show and Tell.

Date: November 10, 2015

Time: Meeting at 7:30 p.m.

Informal gathering and refreshments from 7 - 7:30 p.m.

Where: Ridge Road Baptist Church. 2011 Ridge Rd., Raleigh

VE Testing will begin at 5:30

New HAM / Elmer meeting, 6:00 p.m. before member meeting

Tadd Torborg, KA2DEW, Elmer Coordinator

[Click here for more information.](#)

President's Message

The November Member Meeting will be important because it is the election of the 2016 officers of the club. A slate was presented by the Nomination Committee at the October meeting and two positions were not filled – notably, President and Education Director. Obviously, these positions need to be filled if RARS is to continue to move forward. I am asking you to think long and hard about who can step up and do the job. Yes, these positions take time – a few hours a week – but they are not overwhelming and are doable.

[Continued on page 3](#)

RARS Officers

PRESIDENT

Murray Merner
K4MHM
919-803-7973
K4MHM@arrl.net

VICE PRESIDENT

Tom Lewis
N4TL
n4tl2@yahoo.com

SECRETARY

Bob Chew
K4YXM
919.782.5778
rlchew@mindspring.com

TREASURER

Greg Seamster
KE4PAX
919.859.0029
ke4pax@arrl.net



The Raleigh Amateur Radio Society

The Raleigh Amateur Radio Society, Inc. (RARS) was founded in 1969 and continues to serve and support the amateur radio community in the greater Triangle area. In 1999, the society incorporated a new RARS and obtained 501(c)(3) non-profit tax status.

The objectives of the club are to promote worldwide friendship through amateur radio; to be of public service by providing radio communications in times of disaster, emergency, or civic needs; to educate members in radio technique, and to provide training classes to assist in obtaining amateur radio licenses.

Anyone interested in amateur radio is eligible to apply for membership. Dues for regular licensed amateurs are \$18 per year (from July 1 through June 30). Additional immediate family members pay \$5 each per year. Dues for licensed amateurs older than 59 or younger than 16 are \$12 per year. Dues for non-licensed associate members are \$9 per year. Applications for membership may be obtained from the treasurer or on the RARS website (www.rars.org).

Exciter

The Exciter is the official newsletter of the Raleigh Amateur Radio Society. It appears each month as a PDF on the RARS website at www.rars.org. Members receive email notification when the latest version is available. Please provide your email address to the Treasurer.

The Exciter welcomes articles, advertisements, and other contributions. To submit a piece to the newsletter, please contact the Editor. The Editor reserves the right to edit any and all pieces. The submission deadline for each month's Exciter is the third Friday of the preceding month. All submissions must be final. Drafts are not accepted.

The views expressed in the Exciter are those of the individual authors and do not necessarily reflect the views of the Editor or RARS.

Tom Lewis, N4TL, editor (editor@rars.org)

For Your Information

RARS General Meeting

Date: **Second** Tuesday of each month

Location: Ridge Road Baptist Church 2011
Ridge Road Raleigh, NC, 27607

Time: People begin arriving at 7 p.m. The meeting officially begins at 7:30 p.m.

RARS Monthly Dinner

All members and guests are welcome to the monthly (first Tuesday) RARS Supper, 6:30PM, at the Golden Corral Restaurant, 6129 Glenwood Ave., Raleigh. Informal and Dutch, just bring your appetite and best rag to chew. 73, Chuck, K4HF

RARS Repeaters in Raleigh

146.640 and 444.525

Join us for the nightly RARS net at 8 p.m. on the 146.640 repeater. All hams holding a Technician class license or higher are invited to check in. We welcome both RARS and non-RARS members to the net.

There is a net Listing on the RARS website click here. <http://www.rars.org/nets.php>

VE Testing

The RARS VEs will accept walk-in testing in February, May, August and November at 5:30PM, prior to RARS membership meetings at Ridge Road Baptist Church; the RARSfest in April; the Cary Swapfest in July; the JARS-Fest in November; and following RARS license classes. Please bring a photo ID, your original and a copy of your current license, your \$14 exam fee, and any valid CSCEs that prove passing elements beyond that of your current license. Visit www.rars.org for more information.

President's Message continued

ble by a working person. I have held both positions (at the same time) and feel they are only made hard by how much the person wants to get done. We have benefitted by those who have done the jobs before – there are a lot of “past” officers in the club who did what needed to be done to keep RARS alive. Now is the time for someone to take the torch and lead us forward.

The November meeting is also a fun meeting. How do hams have fun? They make things. AR is a DIY activity and we have some creative and knowledgeable people out there. Bring the things you made and show others how it is done.

We are approaching the completion of the upgrading of the repeaters. There are some final purchases to be made to complete the project. These were not in the budget we approved in June so we will bring that up as part of our business also in the November meeting. Our club has repeaters whereas some clubs don't and the repeaters are run privately. Repeaters are expensive and sometimes the private ones are hard pressed to keep them running. We are fortunate in that we have the financial resources to keep our repeaters functioning effectively.

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President's Message continued

The survey is still being developed. The problem is having our members complete them so we can get accurate information. Our strategy is to keep them short and relevant. I understand the first one will be oriented to RARS efforts to involve youth. There has been an effort to get involved in Scouting, but we need to go further than that. With that said, I feel we even need to have a Youth Director so that we never ignore that aspect of our club, its future and the future of Amateur Radio.

Late news. As I am writing this I just got word that RARS was number one in the 9A USA category and 19 overall in this year's Field Day. That's remarkable since we spent a lot of time in the garage of Jim, N4CAE, and hiding from the lightning! Congratulations to Dennis, NC4DK, his team and all those who helped with this Field Day.

73,
Murray, K4MHM
Amateur Radio, pass it on.

Announcing the 44th

annual [RARSfest](#)

and ARRL NC

Section Convention

Saturday April 2nd, 2016

NC State Fairgrounds

<http://www.rars.org/rarsfest/>

Education Director

The Extra course ends Nov 14 and the Technician course starts Jan 16, 2016. The remainder of the 2016 tentative schedule is: General, Feb 27; Extra, Apr 16; Technician, Aug 6 and General, Oct 1. This will be the only Extra course offered in 2016.

73, Murray, K4MHM

Deepest Sympathies.

Lynn Rast, fiancé of John, AI4RT, passed away on Monday, October 19, 2015. Our sympathies are with her family and friends. This is a link to the Bright Funeral Home website.

<http://brightfunerals.com/obituary?id=211116>

RARS November Birthdays

Joe	WA4GIR	11/02
Ed	KE4YEM	11/03
Carroll	KD4JH	11/07
Clayton	KE4DOX	11/07
Jeff	AC4ZO	11/08
Lynn	W9CLF	11/09
Rich	NC4EN	11/11
Chris	N3JHR	11/14
Joshua	KF4ZXK	11/15
Glenn	NC4NC	11/16
Eric	K4WVR	11/18
Donald	KJ4DNI	11/21
Mark	WD4KSE	11/21
Bill	KG4CXY	11/24
Scott	KI4OCF	11/24
Terri	N4ZUD	11/25
Stephen	KM4JDZ	11/28
Clare	N2RJB	11/30

RARS New Members

Mark Kleinerman	KM4OIZ
Kathleen Kyburz Abbey	KM4CSF
Keith Abbey	KM4NBO

Scouting

RARS participated in the Jamboree -on-the-Air (JOTA) this year. The set up was at the Occoneechee Council HQ on Sat Oct 17. Crew included: Charles KN4AMT, Raymond NC4OO, Karl W4CHX, Marty W4MY, Rob KM4LMY, Dennis AJ4HK and Murray K4MHM. The dipole antenna presented some challenges but Marty prevailed. We look forward to doing it again next year. Charles is heading up the RARS participation in the Occoneechee University of Scouting with presentations and booths. We look for other opportunities to work with the scouts in the future.

73, Murray, K4MHM

[Pictures on the next page](#)

KJI Electronics

One of our Ham Fest participants, KJI Electronics, Inc. will be celebrating their 14th Annual Customer Appreciation on November 20th, 21st and 22nd 2015. RARS members are invited to come on down! They are also proud to announce their newest relationship with YAESU AMERICA, as an AUTHORIZED DEALER. For more information visit their website, www.kjielelectronics.com.

Jamboree-on-the-Air pictures



Murray Merner, K4MHM and
Scout leader Rob Cox, KM4LMY



The Information table and
Raymond Lefrancois, NC4OO



A Scout and Marty Young, W4MY



A Scout and Dennis Mason, AJ4HK



Nick Long, Council Commissioner and
Charles Good, KM4AMT



Operating position

RARS annual Auction

The annual RARS auction was held on Tuesday October 13, 2015.



Our auctioneer, Rick Kelly-Crapse, KB4TKQ

Some of the
items to be
auctioned
off



Everyone is ready
for the sale to start

RARS Field Day Team

Number One in 9A

Congratulations to the RARS Field Day team. According to the ARRL website, RARS placed number one for the 9A category. The new tent worked well and brought everyone together in one area.

Thanks to everyone who participated. If you go to this website <http://www.arrl.org/news/view/arrl-field-day-2015-results-now-available> and at the bottom select category 9A you can see W4DW is at the top of the list.

Amateur Radio is a 21st

Century hobby

According to the Radio Society of Great Britain Amateur Radio is a 21st Century hobby. Check out this you tube video: https://www.youtube.com/watch?v=8x6x_6mDVIQ

The [Radio Society of Great Britain](http://www.rsgb.org) has been advancing Amateur radio since 1913.

November's Program: Members Show and Tell.

Bring something of interest that you have built this year or previous years, maybe years ago. Be prepared to show it off and tell about it. The time will be divided up so everyone can have time to show off their item.



New HAM / Elmer meeting, 6:00 p.m.

before the member meeting

Tadd Torborg, KA2DEW, Elmer Coordinator

The New Hams meeting is held every month before the regular RARs meeting. We'll try to start by 6pm. We try to address topics in a manner that will be of help to hams in their first year of operation.

Tadd / KA2DEW

tadd@mac.com



Fin, NC4FG, showing the details of his portable ham station at the October new hams meeting.

Survey

Youth (boys and girls) participation in Amateur Radio and RARS are the future of Amateur Radio. We would like get your opinions and options on youth interest and participation. If you are a RARS member, visit the following URL or use the QRC barcode to access and take our 2 question survey.

www.surveymonkey.com/r/KNMDG2R



73 Charles, KM4AMT, Raymond,
NC4OO & Murray, K4MHM

National Parks on the Air

Throughout 2016, Amateur Radio will be helping the National Park Service celebrate their 100th anniversary. Hams from across the country will activate NPS units, promote the National Park Service and showcase Amateur Radio to the public.

<http://www.arrrl.org/NPOTA>



Future RARS 2015 Meeting Topics

December 8, 2015, RARS pot luck Holiday party and
RARS Officers induction.

January 12, 2016, Frank Weiss, KY4W,
Putting up a tower and antennas in NC
Titles, topics, and speakers subject to change.

Contest - Information

CQ World Wide DX Contest.

CW: November 28-29, 2015

According to the CQ website:

The CQ WW is the largest Amateur Radio competitions in the world. Over 30,000 participants take to the airwaves on the last weekend of October (SSB) and November (CW) with the goal of making as many contacts with as many different DXCC entities and CQ Zones as possible.

For more information go to the CQ WW website.

<http://www.cqww.com/>

ARRL Sweepstakes

November 2015

7-9 **Nov. Sweepstakes – CW**
21-23 **Nov. Sweepstakes – Phone**



Objective: For stations in the United States and Canada (including territories and possessions) to exchange QSO information with as many other US and Canadian stations as possible on 160, 80, 40, 20, 15 and 10 meter bands.

For more information go to the ARRL website.

<http://www.arrl.org/sweepstakes>

“QRO CLUB” OFFERS FREE DXPEDITION TRAVEL AMPS

Bernie McClenny, W3UR, Editor of: The Daily DX Sent this out via email on September 22, 2015

Bedford, MA--(20 Sept 2015)--
Dxpeditors take note, there's a new club to help you out: the "QRO CLUB". Supported by W1YW and the Fractal Amateur Radio Club (W1FRX), the QRO CLUB has one objective--to keep DX on the bands active.

The contemporary Dxpeditors has broken into two camps: 1) the mega-class, 'big deals' and 2) the extended weekend low power/QRP operations. Notes W1YW: "Low power/QRP is an exciting challenge. But if you are going anyplace that's even remotely rare, you have to be loud. Many DX'ers would like to encourage the third camp (which used to be common)--low cost, high power operations, with a minimum of gear but plenty of signal".

Added W1YW: "Everyone is grateful for the 'big deal' dxpeditions, which cost ½ million dollars and take years of preparation. But there are plenty of juicy DX locations that you can reach hopping on a jet, with a full station in a single bag, including amp. Modern rigs are great for travel, but designs have been pulling back power in the last 20 years. Clubs used to help by providing amps but as DX clubs consolidated, they've concentrated on providing money to the bigger DXpeditions. It's time to bring back the suitcase KW station for smaller DXpeditions."

Over the two years, W1YW has quiet-

ly gathered almost two dozen amplifiers, organizing the QRO CLUB loaners. "Some of these have been/will be sold to facilitate repair costs, others will be on-loan to actual DX, still others will be travel amps. The QRO CLUB's initial offering is Dentron MLA-2500's as free travel amps."

"The MLA-2500 is a great travel amp, and can be used with a 1KW inverter off 12V if needed. Two of these will be immediately available as DXpedition loaners to modest US- initiated DXpeditions. Traveler insurance must be purchased to cover baggage loss/destruction, otherwise the amps will be free for use. The amps will be returned to the QRO CLUB and sent to the next DXpedition. If they break during use, the Dxpeditors won't be responsible; Murphy happens. With the withering sunspots, we just want to encourage more activity on the bands, and lots of great DX."

Preference will be given to US- initiated small dxpeditions to rare and semi-rare DX countries, with previous dxpeditioner success. Contact W1YW for details at W1YW@aol.com.

Bernie McClenny, W3UR
Editor of: The Daily DX
The Weekly DX
How's DX?

Two week trial - <http://www.dailydx.com/trial.html>

East Coast Amateur Radio Emergency Service Net

Information received from
Bob German, KB4RGC.

With generous help from John Creel – WB3GXW, owner of the [Wash_DC Echo-link](#) conference server and Ronnie Casey - K4JDR, Trustee of the Raleigh NC IRLP Reflector the Johnston County ARES will begin the East Coast Amateur Radio Emergency Service Net on Wednesday December 9th at 7 PM Eastern time. The net will be held on the second Wednesday of every month. Stations can connect to the net from the *Wash_DC* Echolink conference server, node# 6154 or the Raleigh NC IRLP

Reflector 9210.

Each month we will call upon an Amateur Radio Emergency Service representative from different areas to tell what their team is doing to assist their specific location in auxiliary communications during an emergency or disaster. The net infrastructure can also be used as an ad-hoc conduit during emergencies.

More information on the East Coast Amateur Radio Emergency Service Net or suggestions for future nets may be obtained by contacting either Michael Callam, KD4MC, at mcallam@centurylink.net or Bob German, KB4RGC, at bob@rgerman.net.

2015 Hamfest and Conventions

11/15/2015 | JARSFest 2015

Location: Benson, NC

Type: ARRL Hamfest

Sponsor: Johnston Amateur Radio Society

Website: <http://www.jars.net>

01/09/2016 | Winston-Salem FirstFest

Location: Winston-Salem, NC

Type: ARRL Hamfest

Sponsor: Forsyth Amateur Radio Club

Website: <http://www.w4nc.com>

Minutes

Raleigh Amateur Radio Society Board of Directors Meeting September 15, 2015

Present: Bob K4YXM, Chuck K4HF, Raymond NC4OO, Tom N4TL, Dennis NC4DK, Karl W4CHX, Greg KE4PAX

Regrets: Joanne AK4RJ, Bill AK4BL Murray K4MHM

Guest: Alan AB4OZ

1. Call to order (Tom N4TL: The meeting was called to order at 7:10 pm.
2. A quorum was not present until Greg arrived
3. There were no changes to the agenda.
4. Approval of minutes (Tom N4TL): The minutes of the August 18th meeting were approved as corrected.
5. Vice President's report (Tom N4TL): Next meeting is the auction.
6. Treasurer's report (Greg KE4PAX): Greg reported that RARS had 339 members. If anyone has questions regarding details please contact either Greg KE4PAX or Murray K4MHM.
7. Secretary's report (Bob K4YXM): No report
8. Committee reports:
 - a. Public Service Director (John AI4RT): No Report
 - b. Education Director (Murray K4MHM): No report. There were questions about the ability of RARS members to audit the Extra Class class and if that were a factor for determining if there were enough students to have the class.
 - c. Public Information Officer (Charles KM4AMT): No report.
 - d. Immediate Past President (CJ NC4CJ): No report.
 - e. Director-at-Large (Bill AK4BL): No report
 - f. Director-at-Large (Raymond NC4OO): No report.
 - g. Scouting Coordinator (Charles KM4AMT): No Report
 - h. FM Repeater Chair (Karl W4CHX): The 444.525 machine at Bayleaf is installed and operational. Installation of the 145.130 machine (W4RNC) is proceeding to plan.
 - i. Exciter Chair (Tom N4TL): Needs input by September 5th
 - j. Food Service Chair (Joanne AK4RJ): No Report

- k. ARRL liaison Chuck K4HF Chuck reported that over 8000 letters supporting the parity act have been collected by the ARRL.
- l. ARRL NC Section Mgr. (Karl W4CHX): Karl is going to Connecticut for training as a section manager.
- m. Webmaster (Hank K4HM): No report.
- n. RARS Fest: (vacant): Chuck K4HF reported that the date for next RARSfest is April 2nd, 2016.
- o. Field Day Chair (Dennis NC4DK): No report.
- p. North Carolina QSO Party (Marty W4MY): No report.
- q. W4DW/W4RNC Trustee (Jeff AC4ZO): No report
- r. Net Manager (Mary KG4OQA): No report
- s. Nominating committee Chuck K4HF: Chuck reviewed the status of the committee's work to date.

9. Old business:

- a. Job Descriptions:
 - Greg KE4PAX has sent a draft of the financial review process to Murray.
 - Greg KE4PAX is working on the treasurer's job description.
- b. Club Logo: Bob K4YXM reported that he has engaged a graphic designer to develop a logo for RARS. He expects feedback within a week and will send the proposed logos via email when he has them.
- c. Club shirts: No Action.
- d. Member Survey: Charles KM4AMT and Raymond NC4OO have begun work on this but have not completed their work.
- e. Officer installation process: After some discussion, no action was taken.

10. New business: None

11. Comments and announcements: Karl reviewed some lighting incidents that happened at other field day sites and suggested that RARS review it's practices for field day

12. Adjournment (Tom K4TL): The meeting was adjourned at 9:04 pm.

Respectfully submitted,

Bob Chew, K4YXM

RARS Secretary

MINUTES

Raleigh Amateur Radio Society General Membership Meeting October 13, 2015

1. Call to order: Murray K4MHM called the meeting to order at 7:31 PM. There were 53 members in attendance which constituted a quorum.
2. Introduction of New Members and Visitors:
 - a. Visitors: CarlW8WZ, Roger Gibson, James N0FPP, Mary Beason, Sandra Brandt, Jenna Partin, Grant KM9IJJ, John WB4UFO
3. Approval of Minutes: The minutes of the general membership meetings of September 8, 2015 were approved as published in the Exciter.
4. Health and Welfare: No report.
5. Secretary's Report (Bob K4YXM): no report
6. Treasurer's Report (Greg KE4PAX): Greg reported that we currently have 345 members. He reminded people to renew their membership. If anyone has questions regarding the report they should contact either Greg KE4PAX or Murray K4MHM.
7. Vice President's Report (Tom N4TL): Next month is "Show and Tell" by RARS members. Members are invited to bring a project and explain it to the club.
8. Reports and Announcements from RARS Board members and others:
 - a. Public Service: No report.
 - b. Education: The Extra class will begin on October 3rd and will run for seven weeks. Course scheduling for next year will in the order of Tech, General, Extra, Tech and General. The Extra is scheduled early so we can get one more Extra class session with the current question pool which expires June 30, 2016.
 - c. Scouting: Murray K4MHM reported that JOTA is this weekend at the Council office.
 - d. ARRL Liaison: Chuck K4HF indicated the FCC ULS Licensing system software upgrade should be completed by Thursday, Sept. 10.
 - e. Exciter: Tom asked for stories and information for the Exciter.
 - f. Nominating Committee Report: Chuck announced the slate of officers and board members for the next year. It did not have names for President or Education Director.

Nominated for a two year term as Secretary was Bob Chapman NC1X

Continued on the next page

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The following were nominated for a one year term:

- i. Public Service Director: John Snellen AI4RT
- ii. Director At large: Bill Mars AK4BL
- iii. Director At large: Raymond Lefrancois NC4OO
- iv. Director At large: Marty Young W4MY
- v. Public Information Officer: Charles Good KM4AMT
- vi. RARS Exciter Editor: Tom Lewis, N4TL
- vii. RARSfest Chair: Ian Hewitt N0IAN
- viii. Net Manager: Mary Holtschneider KG4OQA
- ix. Trustee for W4DW: W4RNC Jeff Wittich AC4ZO
- x. ARRL Liaison: Chuck Littlewood K4HF
- xi. Repeater Chair: Karl Bowman W4CHX
- xii. Webmaster: Hank Montgomery K4HM
- xiii. Food Chair: Joanne Mars AK4RJ
- xiv. Field Day Chair: Dennis Keith NC4DK
- xv. RARS NCQP Chair: Marty Young W4MY
- xvi. RARS Volunteer Exam Team Leaders: Liz and Joe White KO4CK and WA4GIR

g. Program: Annual RARS Auction.

h. Adjournment: The meeting was adjourned at approximately 9:17 PM.

Respectfully submitted,

Bob K4YXM

RARS Secretary



RARS Classifieds

Copied from www.rars.org/classifieds.php

The items below were listed within the last 30 days on the RARS website.

Jetstream JT270M dualband mobile

Posted October 28th, 2015 by: AJ4HK

Contact: aj4hk@hotmail.com

Jetstream JT270M dualband Mobile, 2mtr/70cm. Bought new Oct. 9th from R & L Electronics. Works very well. has 199 memories. 4w/10w, comes with original box, mounting bracket and hardware, DTMF mic and mic holder, programming cable, software and dc power cable, and manual.

Asking \$95.00 or Reasonable offer.

919-526-2860

Dennis

aj4hk

MFJ 998 HP HF Autotuner - New

Posted October 12th, 2015 by: K4HF

Contact: k4hf@arrl.net

1.8 to 30 MHz, all access., new, unused - \$440

Contact me by E Mail or (919)872-6555 - Thanks, Chuck

MFJ 986 HP HF Manual Antenna Tuner

Posted October 12th, 2015 by: K4HF

Contact: k4hf@arrl.net

1.8 to 30 MHz, as NEW

\$160 - contact me by E Mail, preferred or (919) 872-6555.

Thanks, Chuck

For Sale ICOM IC-756PROIII (PRO3) Transceiver

Posted October 4th, 2015 by: N4TL

Contact: n4tl2@yahoo.com

For Sale ICOM IC-756PROIII (PRO3) in excellent shape in the Original box with the Original manual, Original microphone, and the Original power cord..

\$1,400 or reasonable offer.

RARS Classifieds continued

Misc. Ham Radio Gear

Posted October 31st, 2015 by: K4HF

Contact: k4hf@arrl.net

An **SB 102 Heathkit 80-10 Meter Transceiver**. Looks clean and intact but no power supply to test it. \$75.

Heathkit SA-2040 1KW 80-10 Meter Antenna tuner with rotary inductor. Very good condition. \$135.

Heathkit HD-1234 4 Position HF antenna switch. \$20.

Hallicrafters S38C Ham/SW Receiver. .5 -30MHz, very good condition. \$40.

Macaw PMR-1 1.8 to 60 MHz SWR/PWR Meter, up to 2K w/3 pos. sw. Peak and Avg readings, Good condx. \$25.

Several **Vibroplex bugs** (semi automatic keys) Ask

Contact me by E Mail or (919) 872-6555. Thanks - Chuck

Kenwood TS-570D 100 Watt HF Transceiver w/ P Supply

Posted October 31st, 2015 by: K4HF

Contact: k4hf@arrl.net

The TS570D includes general coverage receive, mike and manual. Built in antenna tuner. Excellent condition. Requires an external power supply which is included. Excellent condition. \$495.

Contact me by E Mail, preferred, or (919) 872-6555 Chuck

Ameritron AL-80B 160-10 Meter 1KW Amplifier

Posted October 31st, 2015 by: K4HF

Contact: k4hf@arrl.net

The AL-80B has a single 3-500Z tube. An exciter relay interface is included as is the manual. Wired for 120VAC but can be wired for 220VAC. Excellent condition - low use. \$900. Please contact me by E Mail, preferred, or (919)-872-6555. Chuck



RARS Classifieds continued

For sale KWM-2A transceiver, 312B-4 Station Control and DX Engineering speech processor

Posted November 2nd, 2015 by: N4TL

Contact: n4tl2@yahoo.com

Collins, KWM2-A Transceiver, SN 17608. It has 3 extra crystals for the WARC bands and 8 other crystals. The 11 extra crystal frequencies are 3.2, 4.4, 4.8, 7.6, 7.8, 10.0, 14.4, 18.0, 20.5, 20.8, and 24.8. This KWM-2A was fixed up by Peter Wittenberg, K2LRC in 2013 (\$438.75). I will ship it in a special box that was made by Dave at Ham Radio Boxes which the buyer can keep. The KWM-2A is in CCA Excellent condition with a round emblem for \$1,000.00.

DX Engineering speech processor for the KWM-2A, \$350.

Collins 312B-4 Station Control, CCA Excellent condition, round emblem. It has a split joint at the bottom of the trim ring, Serial number 55,000. \$275.00.

Other offers considered.

Pictures are at this URL.

<https://www.flickr.com/photos/97551557@N08/sets/72157660319512801>

73 Tom, N4TL 919-870-9342

N4TL2@yahoo.com

